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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/042,424	01/10/2002	Herman Lai	12643 B	2514	
75	90 11/17/2004		EXAMINER		
CHARLES E. BAXLEY			CIRIC, LЛЦАNA V		
5th Floor 59 John Street			ART UNIT	PAPER NUMBER	
New York, NY	10038		3753		

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

				A	
•		Application No.	Applicant(s)	19	
		10/042,424	LAI ET AL.	//	
Office Action Summary		Examiner	Art Unit		
		Ljiljana (Lil) V. Ciric	3753		
Period fe	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence addre	ess	
THE - Exte after - If the - If NC - Failt Any	MORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. Persions of time may be available under the provisions of 37 CFR 1.1 If SIX (6) MONTHS from the mailing date of this communication. Per period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be t y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this comn IED (35 U.S.C. § 133).	nunication.	
Status					
1)⊠	Responsive to communication(s) filed on 23 Ju	<u>une 2004</u> .			
-		action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	453 O.G. 213.		
Disposit	ion of Claims				
4)⊠	Claim(s) 1,3-5 and 7-14 is/are pending in the a	application.			
•	4a) Of the above claim(s) none is/are withdraw				
5)□	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>1,3-5 and 7-14</u> is/are rejected.				
	Claim(s) is/are objected to.				
8)[]	Claim(s) are subject to restriction and/o	r election requirement.			
Applicat	ion Papers				
9)[The specification is objected to by the Examine	er.			
10)⊠	The drawing(s) filed on 10 January 2002 is/are	: a) ☐ accepted or b) ☒ objecte	ed to by the Examiner.		
, —	Applicant may not request that any objection to the				
	Replacement drawing sheet(s) including the correct			1.121(d).	
11)	The oath or declaration is objected to by the Ex		-		
Priority (under 35 U.S.C. § 119				
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).		
	☐ All b)☐ Some * c)☐ None of:		, , , , ,		
,	1. Certified copies of the priority document	s have been received.			
	2. Certified copies of the priority document	•	ition No.		
	3. Copies of the certified copies of the prior	• •		age	
	application from the International Bureau	•			
* 5	See the attached detailed Office action for a list		ved.		
Attachmen	nt(s)				
	ce of References Cited (PTO-892)	4) Interview Summar			
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail I 5) Notice of Informal	Date Patent Application (PTO-1	52)	
	er No(s)/Mail Date	6) Other:	. Lion Approacon (i 10-1)	,	

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DETAILED ACTION

Response to Amendment

- 1. This Office action is in response to the reply filed on June 23, 2004.
- 2. Claims 1, 3 through 5, and 7 through 14 remain in the application, all as amended.

Response to Arguments

3. Applicant's arguments filed on June 23, 2004 with respect to the claims have been considered but are most in view of the new ground(s) of rejection.

Allowable Subject Matter

4. The indicated allowability of claims 2 through 7 and 12 is withdrawn in view of the newly discovered reference(s) to Jemal et al. and Pittman Rejections based on the newly cited reference(s) follow.

Drawings

5. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the evaporator and compressor as recited in claims 12 through 14 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement

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Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference character(s) mentioned in the description: reference character 31 corresponding to the evaporator [page 8, line 21] and reference character 33 corresponding to the compressor [page 8, line 27]. Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- 7. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 8. Claims 5 and 7 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The originally filed disclosure fails to disclose or suggest a second driving device arranged around the first driving device as now recited in amended claim 5 and in claim 7 depending therefrom.

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Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 10. Claims 1, 3, 4, 5, and 8 through 11 are rejected under 35 U.S.C. 102(a) and/or under 35 U.S.C. 102 (b) as being anticipated by Jemal et al.

Jemal et al. discloses a heat exchanging device essentially as claimed, including, for example: a container 10 for receiving a first fluid, a housing 21, a coiled tube 36 extending through the housing 21, a rotatable "paddle wheel" including paddles 24 readable on the means for pumping the first fluid, a first driving device including shaft 23, means for rotating the first driving device or shaft 23 including a second driving device including bearing blocks 32 around the first driving device or shaft 23, and, a gear or drive 33 readable on the means for actuating the first driving device or shaft 23.

The reference thus reads on the claims.

11. Claims 12 through 14 are rejected under 35 U.S.C. 102(a) and/or under 35 U.S.C. 102 (b) as being anticipated by Pittman.

Pittman discloses a heat exchanging device essentially as claimed, including, for example: a container readable on blower housing 12, a housing or plenum 10, a tube 26 connected to coil 20 and extending through the housing or plenum 10, fan or blower 12 readable on the means for pumping the first fluid in the container to flow through the housing or plenum 10 and to have a heat exchange with the second fluid in the tube 26, water heating system elements including hot water heater 32 readable on the means for heating the first fluid or air, an evaporator and compressor coupled to the pipe 64 via heat recovery unit 62, a casing readable on the casing of coil 20 disposed in the housing or plenum 10. Helicoidal wall members 34 and 35 are broadly readable on the casing as recited in claim 8.

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The reference thus reads on the claims.

12. The non-application of art against claim 7 should not be construed as an indication that the claim contains allowable subject matter but rather that the patentability of the claims cannot be determined at

this time due to indefiniteness and/or other problems under 35 U.S.C. 112, first and second paragraphs.

Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office

action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is

reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from

the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing

date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH

shortened statutory period, then the shortened statutory period will expire on the date the advisory action

is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX

MONTHS from the date of this final action.

14. Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Ljiljana (Lil) V. Ciric, whose telephone number is (703) 308-3925 through November 22,

2004. After November 23, 2004, Examiner Ciric will be reachable at (571) 272-4909. While she works a

flexible schedule that varies from day to day and from week to week, Examiner Ciric may generally be

reached at the Office during the work week between the hours of 10 a.m. and 6 p.m. ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene

Mancene, can be reached on (703) 308-2696 through November 22, 2004. After November 23, 2004,

Supervisory Patent Examiner Mancene will be reachable at (571) 272-4930.

in 11-15-04

LILLANA CIRIC PRIMARY EXAMINER